

## CHAPTER VI

### CONCLUSION AND SUGGESTION

#### 6.1. Conclusion

Based on data processing and analysis that has been performed in previous chapter, the conclusion can be drawn as follows:

- a. Based on the mixed-model two-sided assembly line balancing problem type II implementation by using Tecnomatix Plant Simulation, researcher obtain the results of the proposed assembly line performance represented by problem test. The problem test results have the total waiting time for Innova and Fortuner product are 24.15 and 62.2 seconds, weighted line efficiency is 98.40%, weighted smoothness index is 7.5% and throughput 278.
- b. On the proposed assembly line performance represented by problem test results have improvement especially the weighted smoothness index can be decrease that has impact on reducing the waiting time and maximizing the production target, while the weighted line efficiency has the same value and still efficient in before and after balanced. It means that the performance of proposed assembly line has better performance than current assembly line.

#### 6.2. Suggestion

There are several suggestions can be given toward the research:

- a. The researcher still balancing for both product models separately using the software. The researcher advises to find more simplified line balancing methods such as balancing both models without separate each model.
- b. The difficulty to build the model can be obstacle for researcher. For further research, the other simulation approach can be alternative to make easy to build the model.